

Comparisons of Job Characteristics

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Pump Operators, Except Wellhead Pumpers (53-7072)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Pump Operators, Except Wellhead Pumpers (53-7072)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	15.0	15.1	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	12.7	10.5	<	Expanded education and/or training may be required
Production and Processing	6.0	11.3	17.6	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Pump Operators, Except Wellhead Pumpers (53-7072)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	12.3	15.9	>>	Skill level is likely more than sufficient
Operation and Control	5.4	10.0	13.6	>>	Skill level is likely more than sufficient
Quality Control Analysis	5.9	8.4	11.5	>>	Skill level is likely more than sufficient
Troubleshooting	4.5	7.9	6.7	<	A higher skill level may be required
Repairing	3.4	7.5	7.5	0	Current skill level may be sufficient
Equipment Maintenance	3.5	7.1	7.1	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 89

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Perceptual Speed	7.4	11.8	11.4	0	Current ability level may be sufficient
Auditory Attention	5.9	10.1	11.1	0	Current ability level may be sufficient
Rate Control	3.8	8.3	7.6	0	Current ability level may be sufficient
Response Orientation	4.0	7.9	8.8	>	Current ability level is likely sufficient
Dynamic Strength	3.5	6.8	5.1	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	6.7	6.9	0	Current ability level may be sufficient
Wrist-Finger Speed	3.2	6.0	5.9	0	Current ability level may be sufficient
Glare Sensitivity	2.6	5.3	5.1	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Chemical Plant and System Operators (51-8091)
Associated Occupation: Pump Operators, Except Wellhead Pumpers (53-7072)

Work Activities	Exclusivity of Activity
Clean equipment or machinery	20
Collect samples for testing	58
Inspect machinery or equipment to determine adjustments or repairs needed	42
Maintain production or work records	19
Monitor production machinery/equipment operation to detect problems	27
Operate power driven pumps	66
Test materials or solutions	73

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Chemical Plant and System Operators (51-8091)
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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.